APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/923,419	08/08/2001	Eran Shpak	1777/3	9927

7590	04/06/2005	

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EXAMINER
LE, VIET Q

ART UNIT	PAPER NUMBER
2667	

DATE MAILED: 04/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/923,419	SHPAK, ERAN
Office Action Summary	Examiner	Art Unit
	Viet Q. Le	2667

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *08 August 2001*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-14* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-14* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *08 August 2001* is/are: a)☐ accepted or b)☒ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☒ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

Drawings

1.   The informal drawings are not of sufficient quality to permit examination.

Accordingly, replacement drawing sheets in compliance with 37 CFR 1.121(d) are

required in reply to this Office action. The replacement sheet(s) should be labeled

"Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct

any portion of the drawing figures. If the changes are not accepted by the examiner, the

applicant will be notified and informed of any required corrective action in the next Office

action.

      Applicant is given a TWO MONTH time period to submit new drawings in

compliance with 37 CFR 1.81. Extensions of time may be obtained under the provisions

of 37 CFR 1.136(a). Failure to timely submit replacement drawing sheets will result in

ABANDONMENT of the application.

Specification

2.   The disclosure is objected to because of the following informalities:

      a.   On page 1, line 25 of the specification, there is a discrepancy between

figure 1 and the specification. Specification said 74 bytes in packet 10 while

packet 10 in figure 1 is only 68 bytes long.

b.   On page 6, line 5 of the specification, there is a discrepancy between

figure 3 and the specification. Specification said 74 bytes in super packet 40

while super packet 40 in figure 3 is 80 bytes long.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by
another filed in the United States before the invention by the applicant for patent or (2) a patent
granted on an application for patent by another filed in the United States before the invention by the
applicant for patent, except that an international application filed under the treaty defined in section
351(a) shall have the effects for purposes of this subsection of an application filed in the United States
only if the international application designated the United States and was published under Article 21(2)
of such treaty in the English language.

4.   Claims 1, 3, 5-14 are rejected under 35 U.S.C. 102(e) as being anticipated by

Rajeev Koodli (U.S. 6,608,841), hereinafter referred to as Rajeev.

Regarding claim 1, Rajeev disclosed a method of transmitting a plurality of voice

communications from respective end points to an access point (See figure 1. See

column 4, lines 66-67; column 5, lines 1-9. Network can be wireless network comprising

of all necessary network elements used in wireless network like the gateway or/and

access point. See column 4, lines 55-58. Network will support VoIP over the data

network.), comprising the steps of: providing a point-to-multipoint network operative to

send packets from the end points to the access point (See figure 1. See column 4, lines

66-67; column 5, lines 1-9. Access point is part of the wireless network associated with link 10. See column 5, lines 15-20. Multiple hosts or multiple end points and combined and compressed at the headers and sent to the other end of the wireless network. The other end can be a access point before traffic are distributed further to all the remote end points); for each end point: negotiating a respective alias with the access point (See column 5, lines 47-49. Alias or host ID is part of the header negotiated between end points and link 10 which is a wireless network or access point), and configuring the respective voice communication as a voice payload (See figure 2A-2B); concatenating a single super packet header with said alias and with said voice payloads to form a super packet and sending said super packet to the access point via said point to multipoint network (See figures 1, 2A, 2B. See column 5, lines 21-40. See column 5, lines 47-49. Alias or host ID is part of the header negotiated between end points and link 10, which is a wireless network or access point.).

Regarding claim 3, Rajeev disclosed the method, further comprising the step of: at the access point receiving said super packet (See figure 1. See column 5, lines 21-40. See column 5, lines 47-49. Access point is part of the link 10 or the wireless network receiving the super frame traffic from the sources.); and unbundling said super packet into a plurality of received packets (See figure 1. See column 5, lines 21-40. See column 5, lines 47-49. Access point is part of the link 10 or the wireless network receiving the super frame traffic from the sources and un-bundle these traffic to the intended end receivers), each said received packet corresponding to a respective said

voice packet (See column 5, lines 47-49), each said received packet including a header

configured according to said respective alias (See figures 1, 2A, 2B).

Regarding claim 5, Rajeev disclosed the method, wherein said super packet

header is an Ethernet header (See column 4, lines 44-45. See figure 2A).

Regarding claim 6, Rajeev disclosed the method of claim 1, wherein said aliases

are interleaved with said voice packets in said super packet (See figures 1, 2A, 2B. See

column 5, lines 21-40. See column 5, lines 47-49. Alias or host ID is part of the header

negotiated between end points and link 10 which is a wireless network or access point).

Regarding claim 7, Rajeev disclosed the method of claim 1, wherein said super

packet header includes a type field that indicates that said super packet header is

followed by said voice packets (See figure 2A-2B).

Regarding claim 8, Rajeev disclosed the method of claim 1, wherein each said

alias includes a respective station ID, and wherein, for each end point, said negotiating

of said respective alias includes negotiating said respective station ID (See column 5,

lines 47-49. Alias or host ID is part of the header negotiated between end points and

link 10 which is a wireless network or access point).

Regarding claim 9, Rajeev disclosed the method of claim 1,further comprising the

step of: synchronizing said voice packets, prior to said concatenating (See column 12,

lines 1-6).

Regarding claim 10, Rajeev disclosed the method of claim 1, wherein said

negotiating and said concatenating are effected only by providing, in said point-to-

multipoint network, a voice over IP gateway operative to effect said concatenating and

then effecting said negotiating and said concatenating using said voice over IP gateway

(See figures 1, 2A, 2B. See column 5, lines 1-8, 21-40, 47-49. Alias or host ID is part of

the header negotiated between end points and link 10, which is part of a wireless

network. VoIP gateway can be part of the VoIP wireless network).

Regarding claim 11, Rajeev disclosed a system for transmitting a plurality of

voice packets from respective end points to an access point comprising: a voice-over-ip

gateway for: negotiating with the access point (See figure 1. See column 4, lines 66-67;

column 5, lines 1-9. Network can be wireless network comprising of all necessary

network elements used in wireless network like the VoIP gateway or/and access point.

See column 4, lines 55-58. Network will support VoIP over the data network), a

respective alias for each end point (See column 5, lines 47-49. Alias or host identifier is

part of the header for each end point), receiving from each end point, a respective voice

payload (See fig. 2A-2B), and concatenating a single super packet header with said

aliases and with said voice payloads to form a super packet (See fig. 1, 2A, 2B. See

column 5, lines 21-38); and a mechanism for transmitting said super packet to the

access point (See figures 1. See column 5, lines 1-8. Access point is part of the wireless

network).

Regarding claim 12, Rajeev disclosed the system of claim 11, wherein said

mechanism includes a wireless point-to-multipoint network (See figure 1. See column 5,

lines 15-20).

Regarding claim 13, Rajeev disclosed the system of claim 11, wherein said

mechanism includes a cable TV point-to-multipoint network (See figure 1. See column

5, lines 1-8).

Claim Rejections - 35 USC § 103

5.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

6.   Claims 2, 4 & 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Rajeev in view of the background and the admitted prior art of the applicant's own

placation 09/923,419, hereinafter, referred to as Eran.

Regarding claim 2 & 14, Rajeev disclosed a method of transmitting a plurality of

voice communications from respective end points to an access point as described

above.

Rajeev, however, fails to expressly disclose the method, wherein said point-to-

multipoint network is configured according to OSI layer 2.

Eran disclosed in the specification this prior art would be configured in according

with OSI layer 2 requirements (See page 5, lines 6-7).

It would have been obvious to one having ordinary skill in the art at the time the

invention was made to make sure that any improvement in the header compression

would still comply to the OSI layer 2 protocol, the motivation being that by complying to the OSI layer 2 protocol, one would still maintain the original deign of transporting VoIP packets to the destination point.

Regarding claim 4, Rajeev, however, fails to disclose the method, wherein said voice payloads are G.729 payloads.

Eran disclosed in the background art of the application that payloads would comply with G.729 recommendation.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to make sure that voice packets would comply with G.729, the motivation being that by complying with G.729, one would comply with the standard of transporting voice over data packets.

Conclusion

7.   The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

       a.   RFC 2508, Compressing IP/UDP/RTP headers for low speed serial links.

       b.   RFC 2507, IP Header compression.

       c.   RFC 1144, Compressing TCP/IP headers for low speed serial links.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viet Q. Le whose telephone number is 571-272-2246. The examiner can normally be reached on 8 AM -5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Vanderpuye can be reached on 571-272-3078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VL

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